

Title (en)

LIQUID CRYSTAL COMPOSITION FOR USE IN BISTABLE LIQUID CRYSTAL DEVICES

Title (de)

FLÜSSIGKRISTALLZUSAMMENSETZUNG ZUR VERWENDUNG IN BISTABILEN FLÜSSIGKRISTALLANZEIGEN

Title (fr)

COMPOSITION DE CRISTAUX LIQUIDES DESTINEE A ETRE EMPLOYEE DANS DES APPAREILS A CRISTAUX LIQUIDES BISTABLES

Publication

EP 1570025 A1 20050907 (EN)

Application

EP 03779992 A 20031119

Priority

- EP 03779992 A 20031119
- EP 0312953 W 20031119
- EP 02027744 A 20021211

Abstract (en)

[origin: WO2004053021A1] The invention is directed to the use of a liquid crystal composition in a bistable liquid crystal device and especially in a zenithal bistable nematic liquid crystal device, a nematic liquid crystal medium, and a bistable liquid crystal device comprising the liquid crystal composition whereby said liquid crystal composition comprises at least 30 weight% (based on the total weight of the composition) of a component (alpha) containing one or more compounds having a dielectric anisotropy $\Delta\epsilon$ of at least 25, whereby at least 25 weight% (based on the total weight of the composition) of said compounds have a dielectric anisotropy $\Delta\epsilon$ of at least 40; and at least 5 weight% of a component (beta).

IPC 1-7

C09K 19/46; **C09K 19/02**; **G02F 1/1337**

IPC 8 full level

C09K 19/02 (2006.01); **C09K 19/46** (2006.01); **G02F 1/1337** (2006.01)

CPC (source: EP US)

C09K 19/0225 (2013.01 - EP US); **C09K 19/46** (2013.01 - EP US); **C09K 2323/00** (2020.08 - EP US)

Citation (search report)

See references of WO 2004053021A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004053021 A1 20040624; AT E359343 T1 20070515; AU 2003288118 A1 20040630; CN 100469856 C 20090318; CN 1732245 A 20060208; DE 60313211 D1 20070524; DE 60313211 T2 20071220; EP 1570025 A1 20050907; EP 1570025 B1 20070411; JP 2006509854 A 20060323; JP 5436739 B2 20140305; TW 200508365 A 20050301; TW I342330 B 20110521; US 2006054858 A1 20060316; US 7294368 B2 20071113

DOCDB simple family (application)

EP 0312953 W 20031119; AT 03779992 T 20031119; AU 2003288118 A 20031119; CN 200380108014 A 20031119; DE 60313211 T 20031119; EP 03779992 A 20031119; JP 2004557913 A 20031119; TW 92134836 A 20031210; US 53878805 A 20050610